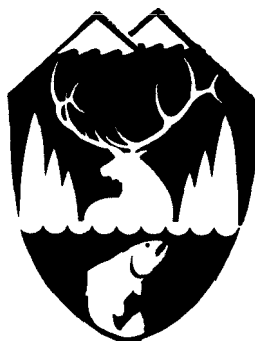


# IDAHO

## DEPARTMENT OF FISH AND GAME

**Jerry M. Conley, Director**

NAMPA HATCHERY  
Annual Report



1 October 1982 - 30 September 1983

by  
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## NAMPA HATCHERY

### ABSTRACT

The Nampa Hatchery was scheduled to plant and transfer 200,000 pounds of rainbow and kamloop trout into streams, lakes and reservoirs throughout Idaho, but because of nitrogen gas, ERM, bacterial gill, IPN, IHN, birds and construction stress, our losses were high and the goal was not reached.

Nampa Hatchery stocked 158,450 pounds of fish that were reared at this station and released to waters of Idaho.

We fed 287,750 pounds of feed with a conversion of 1.816 pounds of feed to produce a pound of fish. The cost per pound of fish produced was .32 cents.

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Walter D. Rast  
Fish Hatchery Superintendent II

## OBJECTIVES

1. To rear 200,000 pounds of kamloop, rainbow R1 and R2 for streams, lakes and reservoirs and transfer to other hatcheries throughout the state.

## INTRODUCTION

Nampa Hatchery is located in Treasure Valley, southwestern Idaho, Canyon County, two miles south of Nampa. It receives water from eight artesian wells 16" in diameter. Six of these wells are on hatchery property and two belong to the Nampa-Meridian irrigation district. The water flow varies from 34 to 46 cfs and it appears the water table is directly related to water levels of Lake Lowell and irrigation season. I have been told by some of the old-timers that this water was not here on the surface prior to the construction of Lake Lowell.

The hatchery has 10 raceways 360' long, 12' wide, 4' deep and divided into three sections; 3 raceways 180' long, 12' wide, 3' deep, and divided into 2 sections; and 16 raceways 50' long, 5' wide, 3' deep. The hatchery room has five fiberglass circular vats and upwelling incubators.

The hatchery should be able to produce 250,000 pounds of fish.

## FISH PRODUCTION

### Rainbow Trout

#### R1 Rainbow

R1 rainbow is the primary species reared at Nampa Hatchery. Production on hand at the start of the year was 685,852 fish weighing 38,889 pounds. The year ended with 495,917 fish weighing 14,535 pounds. The hatchery received 254,646 eggs from Troutlodge. Fish received for holdovers from Hayspur totaled 152,100 weighing 3,600 pounds and from Grace totaling 154,350 weighing 3,500 pounds. Fish released to waters of the state totaled 247,462 weighing 75,400 pounds. Transfers to other stations totaled 155,300 fish weighing 57,600 pounds. The Nampa Hatchery planted out of Hagerman Hatchery into Region 3,148,243 fish weighing 31,050 pounds.

### R2 Rainbow

R2 rainbow on hand at the start of the year totaled 82,573 fish weighing 2,386 pounds and the year ended with 164,131 fish weighing 3,549 pounds. Eggs received from Mt. Whitney totaled 141,700 and fish transferred from Eagle totaled 44,334 weighing 821 pounds. R2 releases totaled 82,160 weighing 19,200 pounds.

### Kamloop

There were no kamloop on hand at the start of the year; however, there were 157,048 fish weighing 17,901 pounds on hand by the end of the year. Nampa Hatchery received from Skane Fish Farm 1,024,828 eggs. Fish released totaled 129,230 and weighed 16,700 pounds; the total transferred was 12,090 fish weighing 3,900 pounds.

### German Brown

The total of German Brown on hand at the start of the year totaled zero; the hatchery received 250,496 eggs from Plymouth Rock Trout Company. Fish totaling 29,252 and weighing 142 pounds were released into Region 3 waters. Nampa planted 49,950 fish weighing 111 pounds and coming from Ashton Hatchery into Region 3 waters. There was an 88% loss totaling 221,244.

## FISH HEALTH

Fish health was fairly good with the R1 and R2 rainbow but the kamloop and German Brown health was terrible. The R1 rainbow had a .279% loss, R2 rainbow had a .083% loss, the kamloop had a .709% loss and there was an 88% loss in the German Brown.

Most of the losses came in the hatchery building and small raceways. Causes of death were from nitrogen gas, bacterial gill, ERM, IHN and density. I believe my big problem in the hatchery vats was over-crowding. These fish need to be left thinned out till they get some size.

# FISH TRANSFERS

Table 1. Fish transfers from Nampa Hatchery - May 23 through July 21, 1983.

Table 1 includes all transfers of fish from Nampa Hatchery to other stations.

Date	Species	Station	No.	Lbs.	Release Size	
7-21-83	R1	Clark Fork	22,050	6,300	3.5	8.9420
7-19-83	R1	Mackay	10,500	3,000	3.5	8.9420
7-18-83	R1	McCall	8,840	2,600	3.4	9.0246
7-13-83	R1	McCall	9,990	2,700	3.7	8.7721
7-11-83	R1	Kamiah	8,510	2,300	3.7	8.7721
7-06-83	R1	McCall	11,820	3,000	3.94	8.6177
6-30-83	R1	Mackay	27,580	7,000	3.94	8.6177
6-29-83	R1	McCall	20,790	6,300	3.3	9.1057
6-24-83	R1	McCall	6,480	1,800	3.6	8.8578
6-24-83	Ri	McCall	10,800	4,500	2.4	10.140
6-08-83	R1	Kamiah	5,760	2,400	2.4	10.140
6-07-83	RI	Mackay	6,480	2,700	2.4	10.140
5-25-83	Kamloop	McCall	12,090	3,900	3.1	9.3025
5-23-83	R1	Kamiah	5,700	3,000	1.9	10.956
	TOTAL	RBT-R1	155,300	47,600		
	TOTAL	Kamloop	12,090	3,900		

## FISH RELEASES

The following are totals planted in the different regions of the state from Nampa Hatchery:

### Region 2

Rainbow R1	36,450 fish	11,300 pounds
Rainbow R2	61,480 fish	14,800 pounds

### Region 3

Rainbow RI	194,807 fish	61,500 pounds
Kamloop	90,690 fish	12,300 pounds
Brown	29,252 fish	142 pounds

### Region 6

Kamloop	50,630 fish	8,300 pounds
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## FISH PLANTED BY NAMPA

The Nampa crew planted 148,243 catchable R1 rainbow weighing 31,050 pounds into streams, ponds, lakes and reservoirs in the Nampa planting area of Region 3 from Hagerman Hatchery.

The Nampa crew also planted 49,950 German Brown from Ashton into streams in the Nampa planting area.



## SPAWNTAKING OPERATIONS

The Nampa and Eagle personnel was involved with the kokanee spawning operations at Eagle and Anderson Ranch trap; a good run of large kokanee made a very successful egg take.

## FISH FEED UTILIZED

The fish feed used by Nampa Hatchery was used from two contract sources, Clear Springs and Rangens, both located in Buhl, Idaho. Table 2 lists sizes, pounds and cost of feed used.

## MISCELLANEOUS ACTIVITIES

Visitors at the Nampa Hatchery was still pretty slow this year. We did get 31 groups of people. The groups consisted of senior citizens, 11 school classes and 19 boy scout groups. Telephone calls for fishing and hunting increased substantially.

New construction brought about quite a few changes. A new well was drilled for the small raceways and a degassing column was built and installed by the construction crew for the new well and a pump for removing nitrogen.

A water chiller and 5000 gallon tank was purchased and installed for fish distribution. The area under the bulk bins was housed in for the generating plant and electrical equipment for degassing pumps and the standby generator.

The roads were changed and all the surface dirt removed and replaced with a synthetic mat and covered with a road mix to get away from the mud during the wet times; it made a big difference. The old office was made into a bachelors quarters and the office was moved down to the old processing plant.

# FISH FEED UTILIZED

Table 2. Fish feed used by Nampa Hatchery - October 1, 1982 through September 30, 1983.

Size	Pounds Fed	Cost
#1	50	\$ 12.37
#2	1,300	321.02
#3	5,350	1,321.52
#4	9,850	1,926.24
#5	12,350	2,368.84
#6	23,340	4,331.52
3/32	17,870	3,532.90
1/8	113,490	19,201.35
5/32	101,300	17,050.55
Sulfa	1,350	473.68
TM	1,500	469.90
TOTAL	287,750	\$51,009.89

ACKNOWLEDGEMENTS Hatchery staffing during

the year included:

Walter D. Rast, Fish Hatchery Superintendent II  
Steve Dillon, Fish Hatchery Superintendent I  
Melvin Sadecki, Fish Hatchery Superintendent I  
Doug Knifong, Fish Culturist  
Robert Owens, Fish Culturist  
Gary Ady, Biological Aide  
Ted Choules, Biological Aide  
Melvin Prince, Fish Transport Operator  
Kenneth Taylor, Fish Transport Operator  
Karen Spencer, Laborer  
Steven Leriget, Laborer  
Steve Vernholm, Laborer